

FIG. 1
(Prior Art)

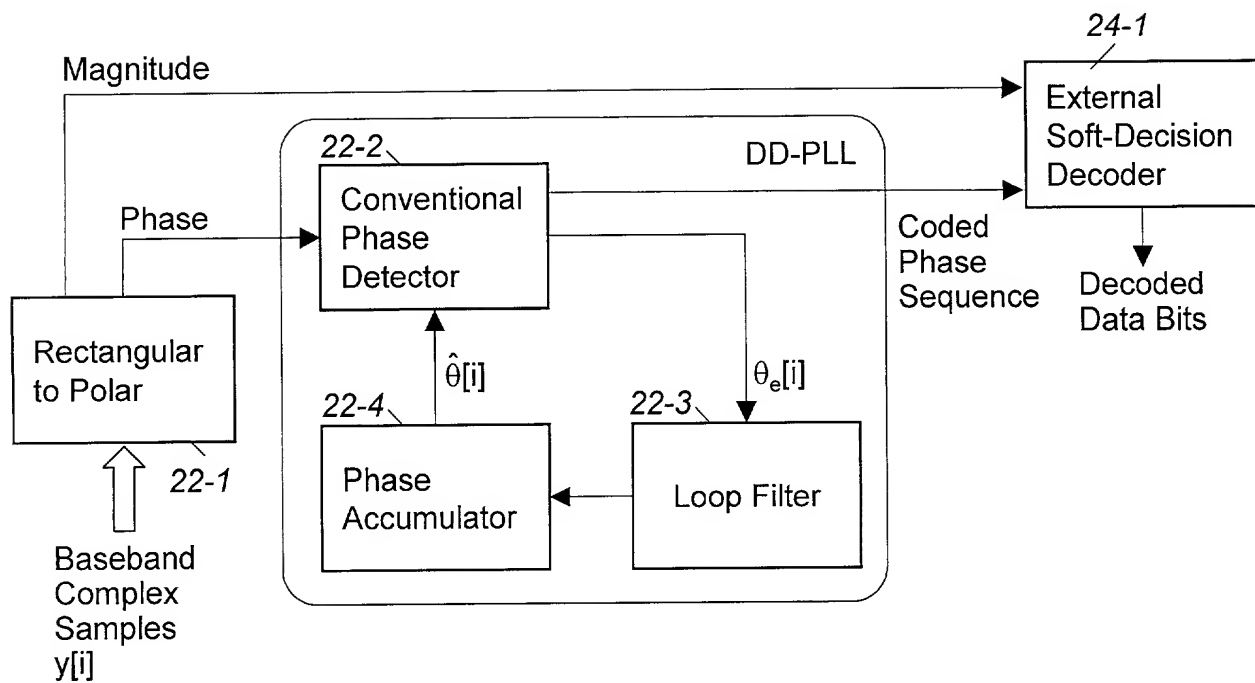


FIG. 2

Improved decision directed phase locked loop with the soft-decision decoder inside the phase detector

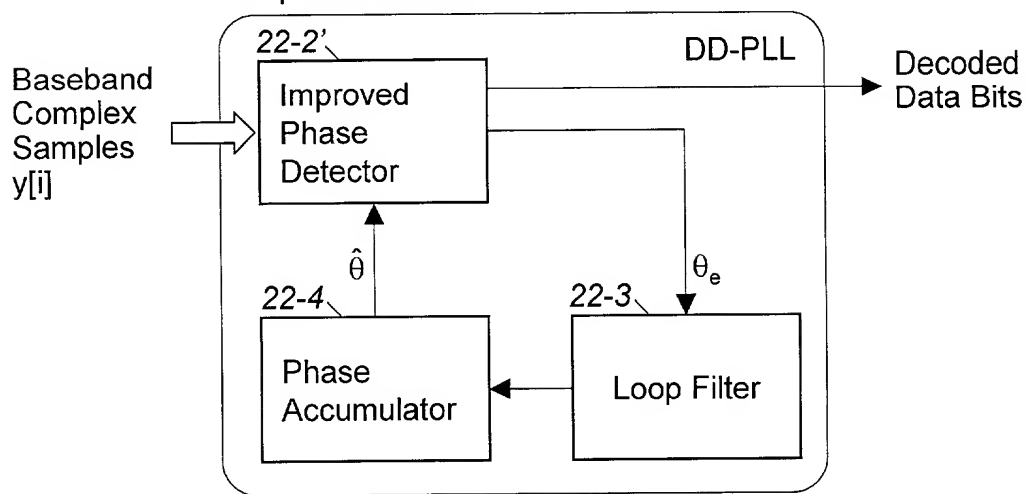
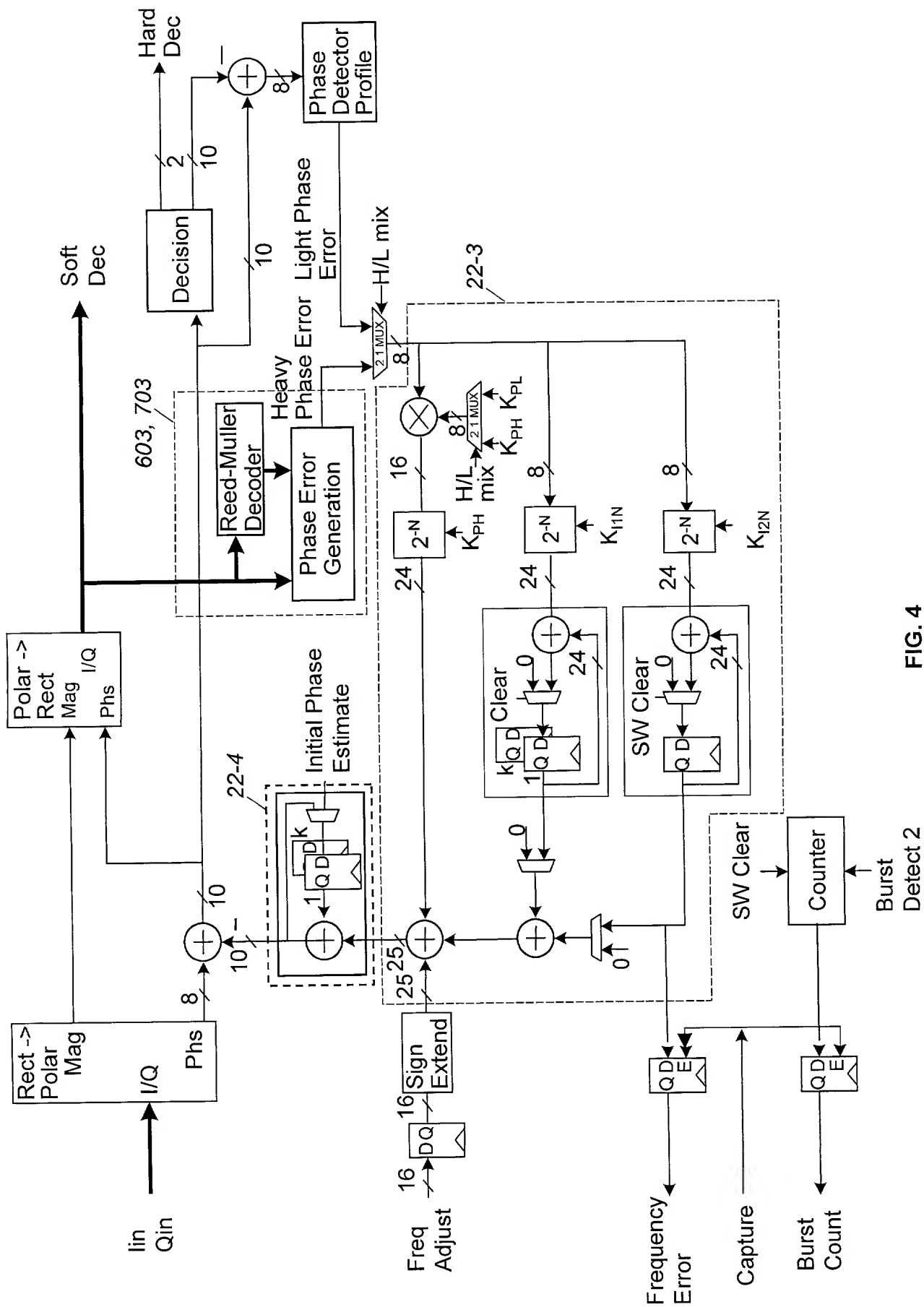


FIG. 3



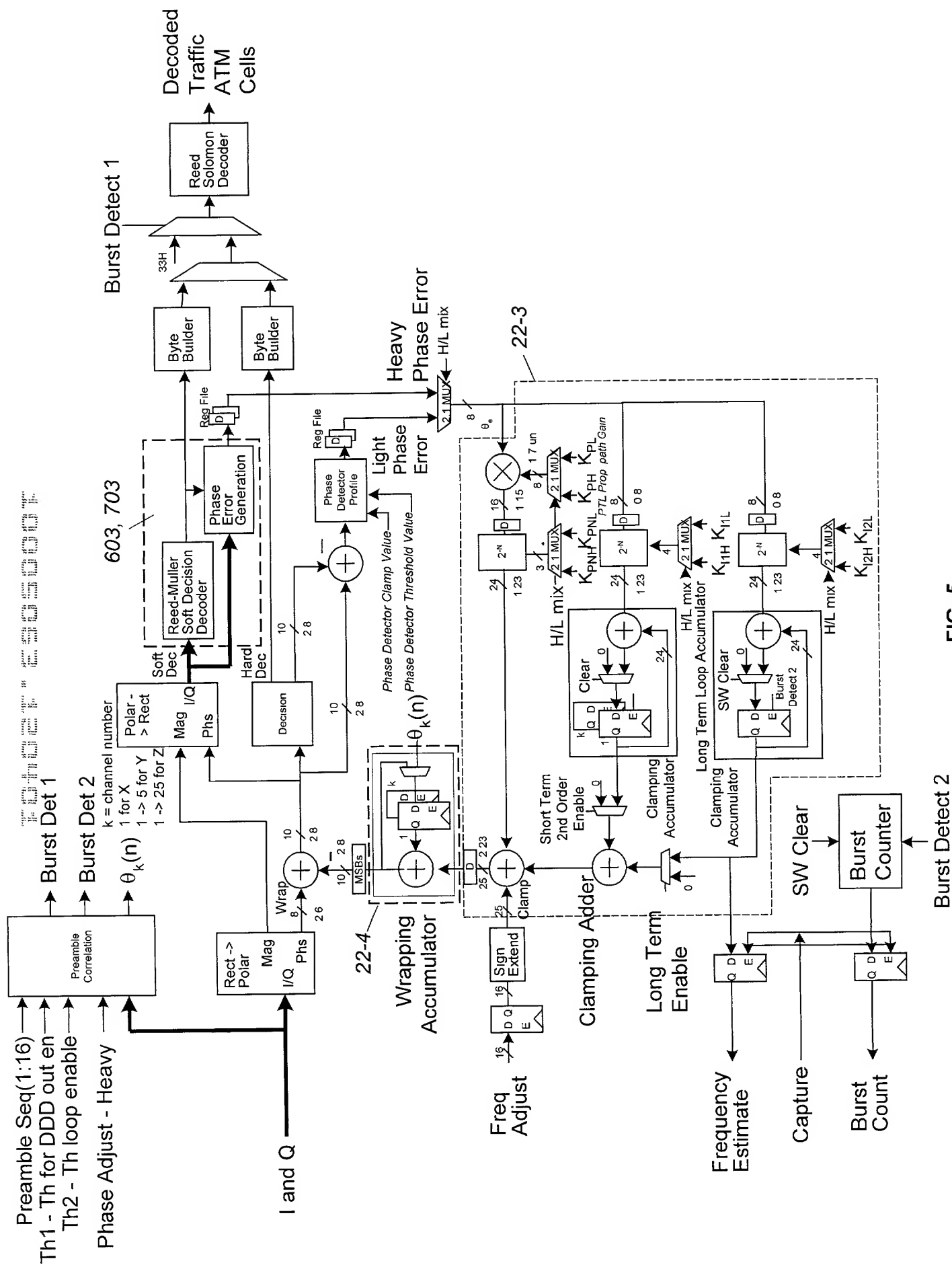


FIG. 5

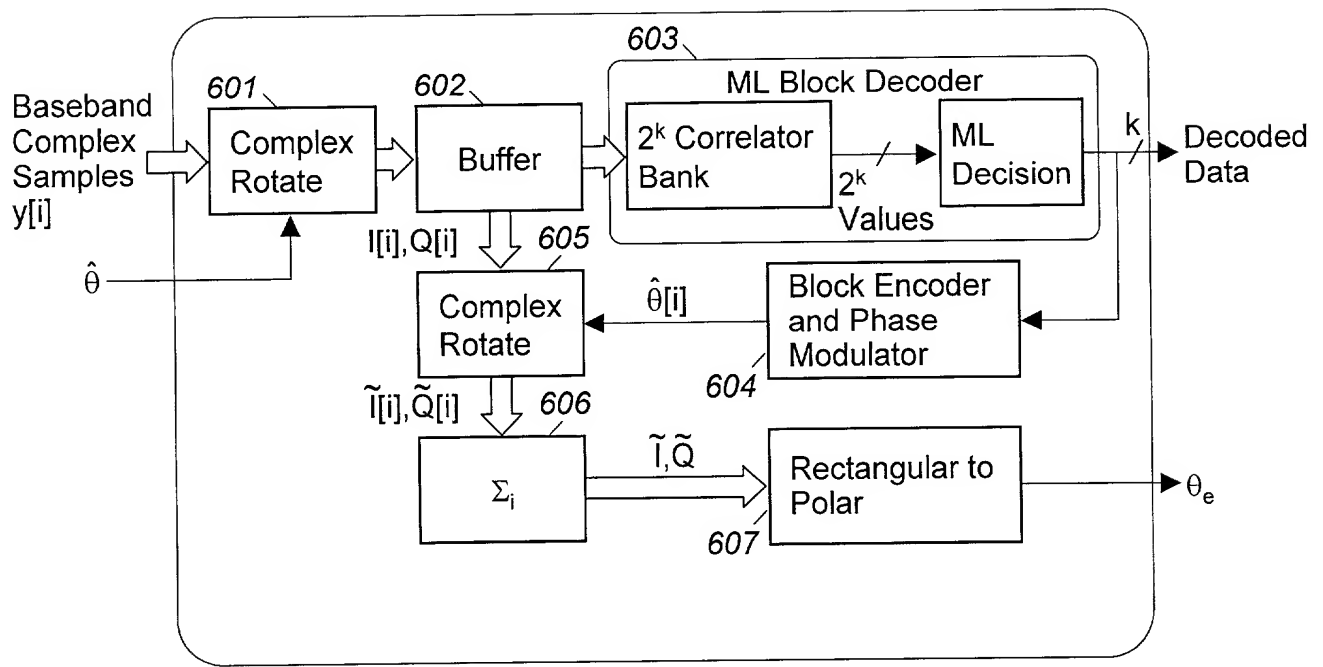


FIG. 6

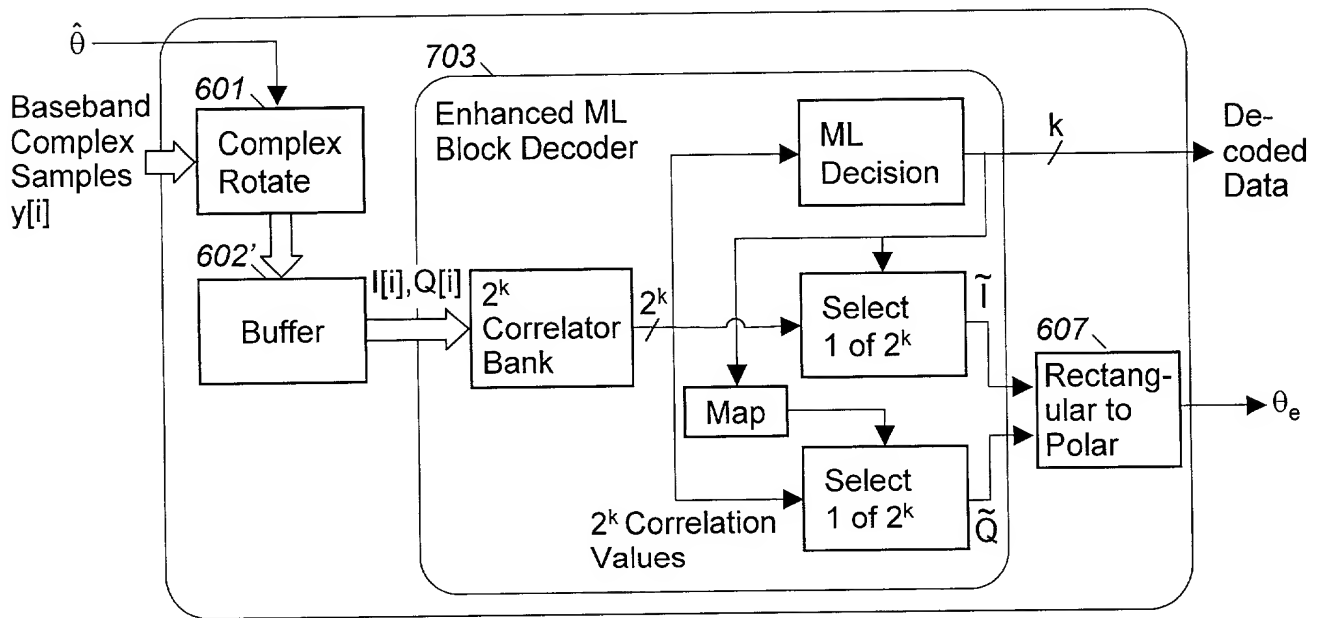


FIG. 7

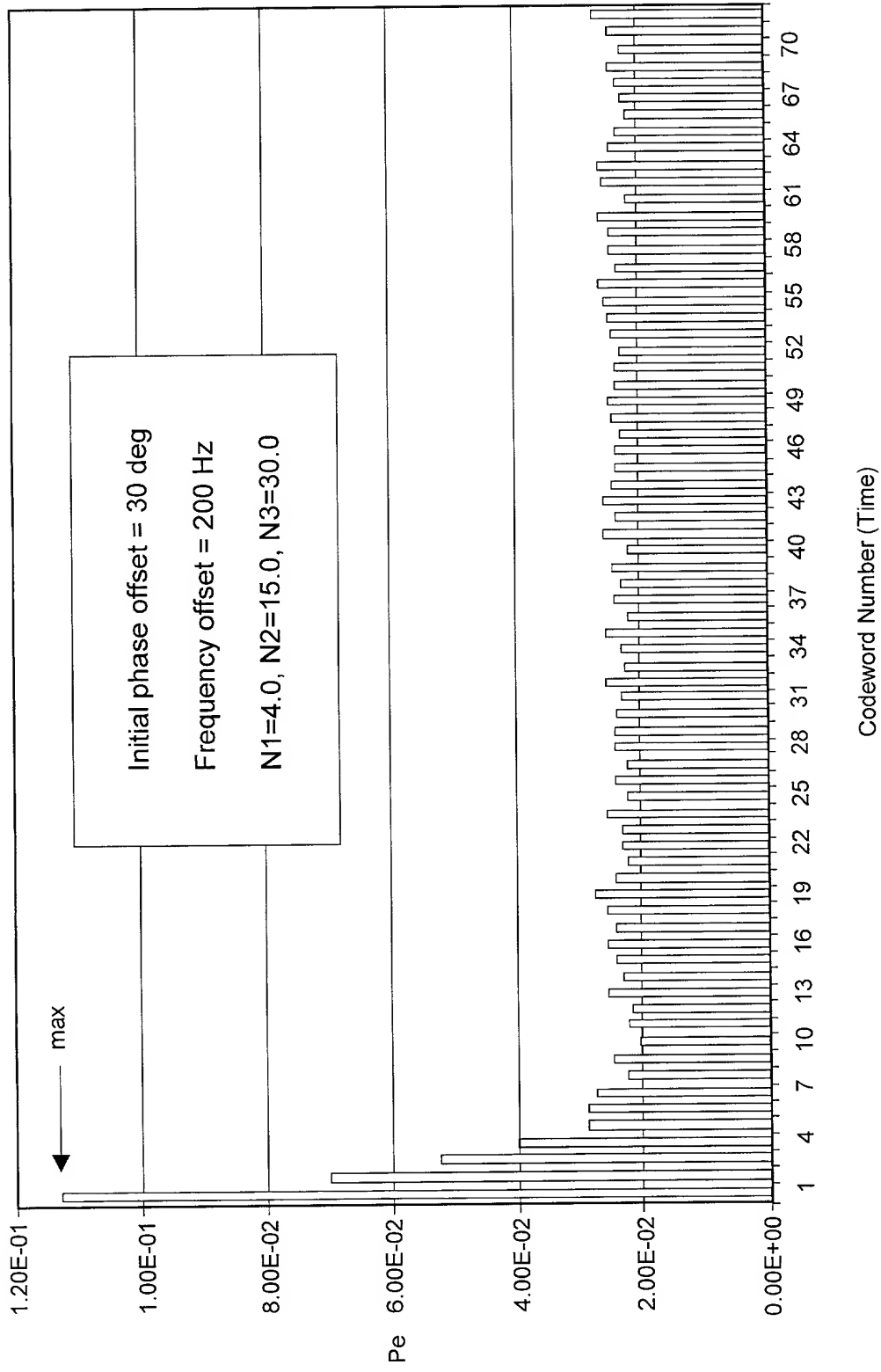


FIG. 8A

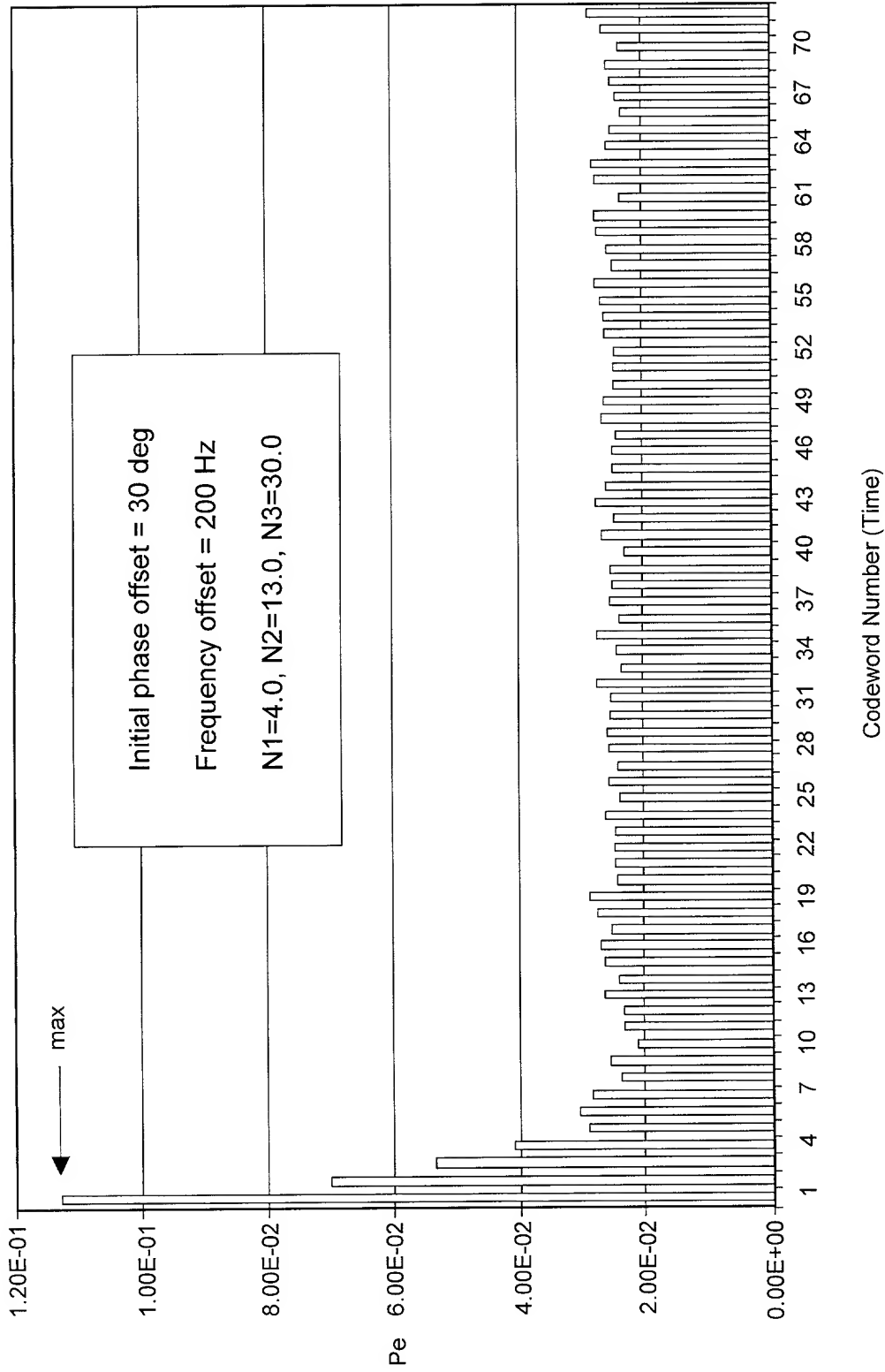


FIG. 8B

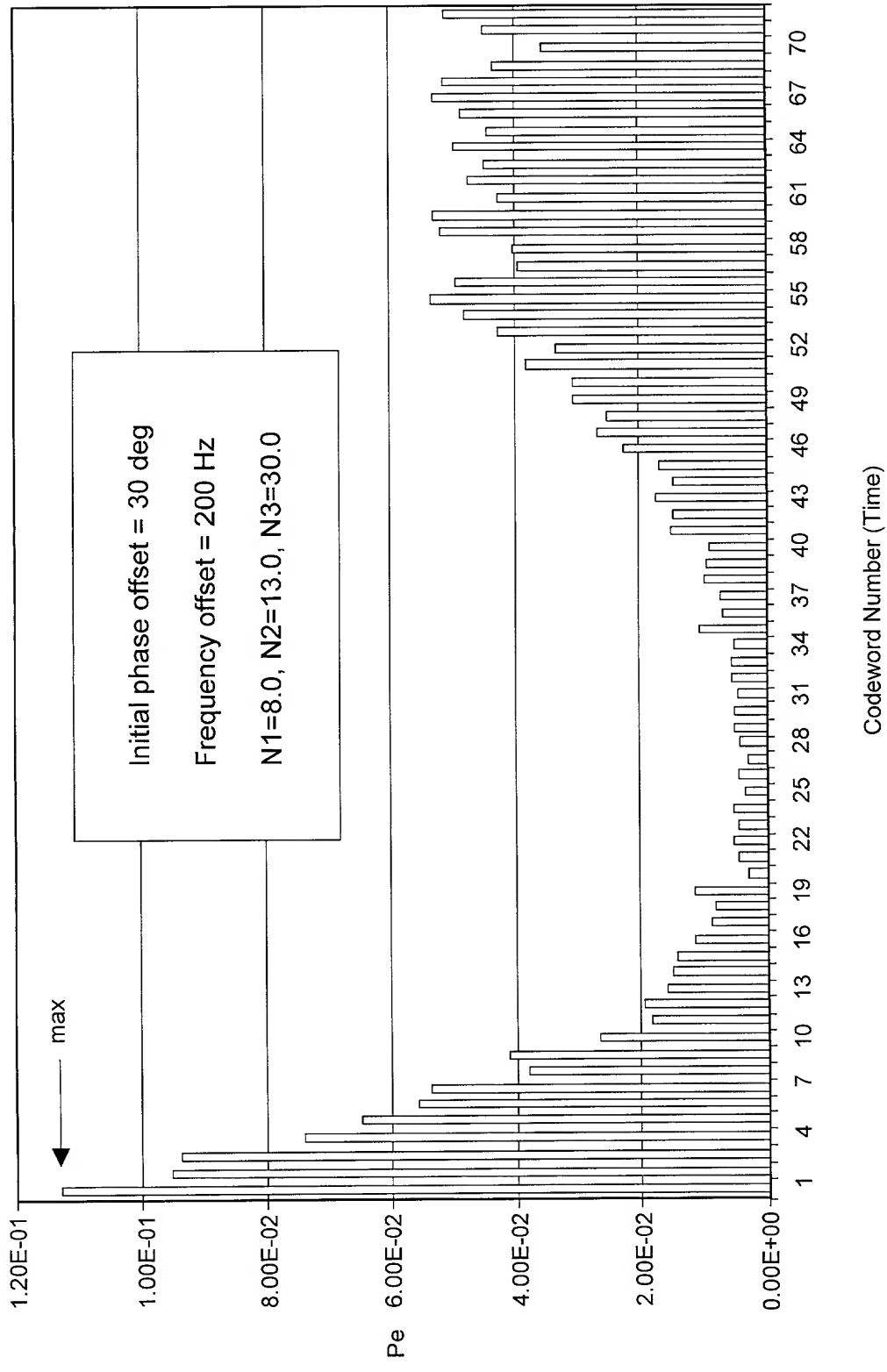


FIG. 8C

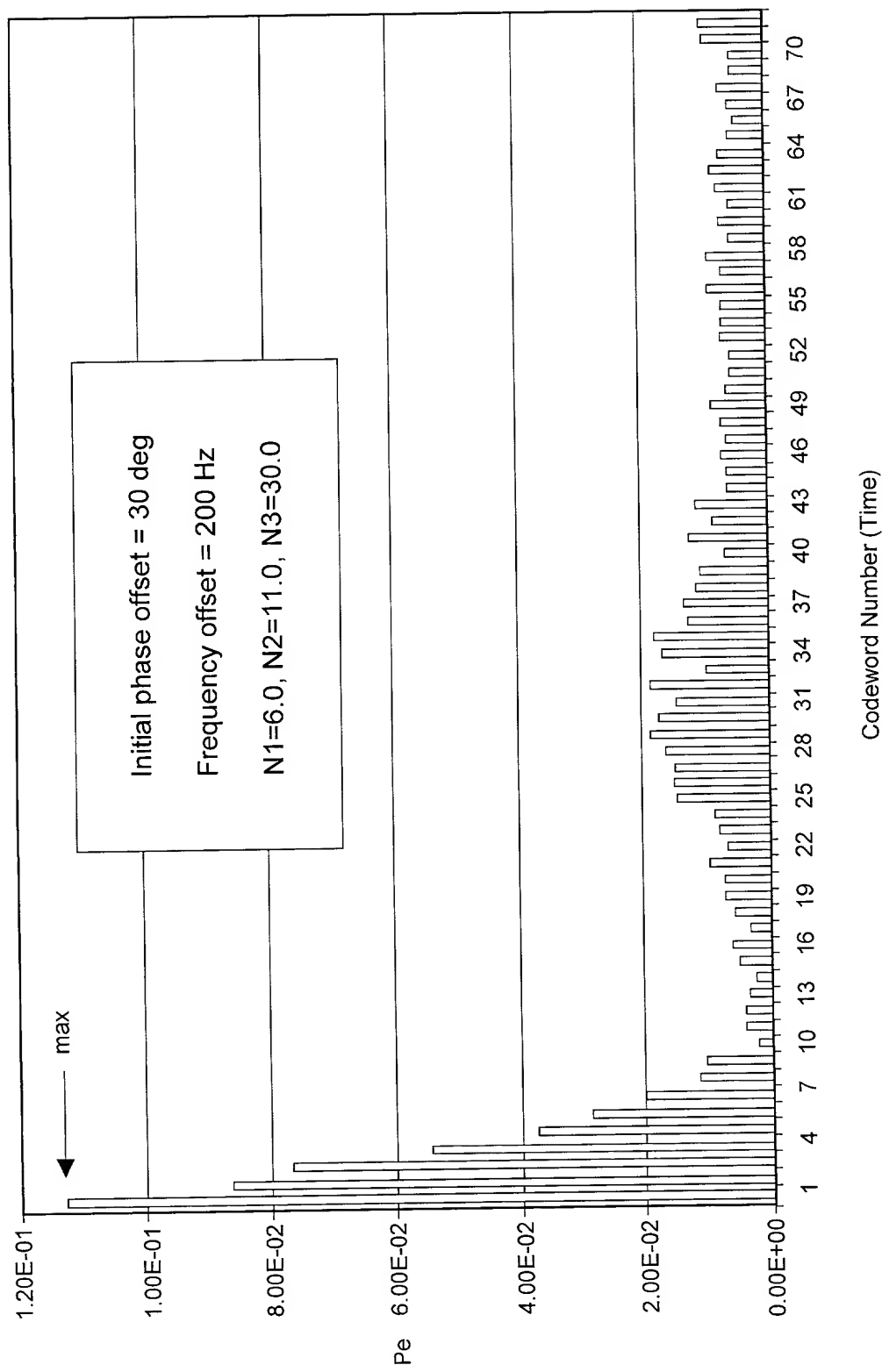


FIG. 8D

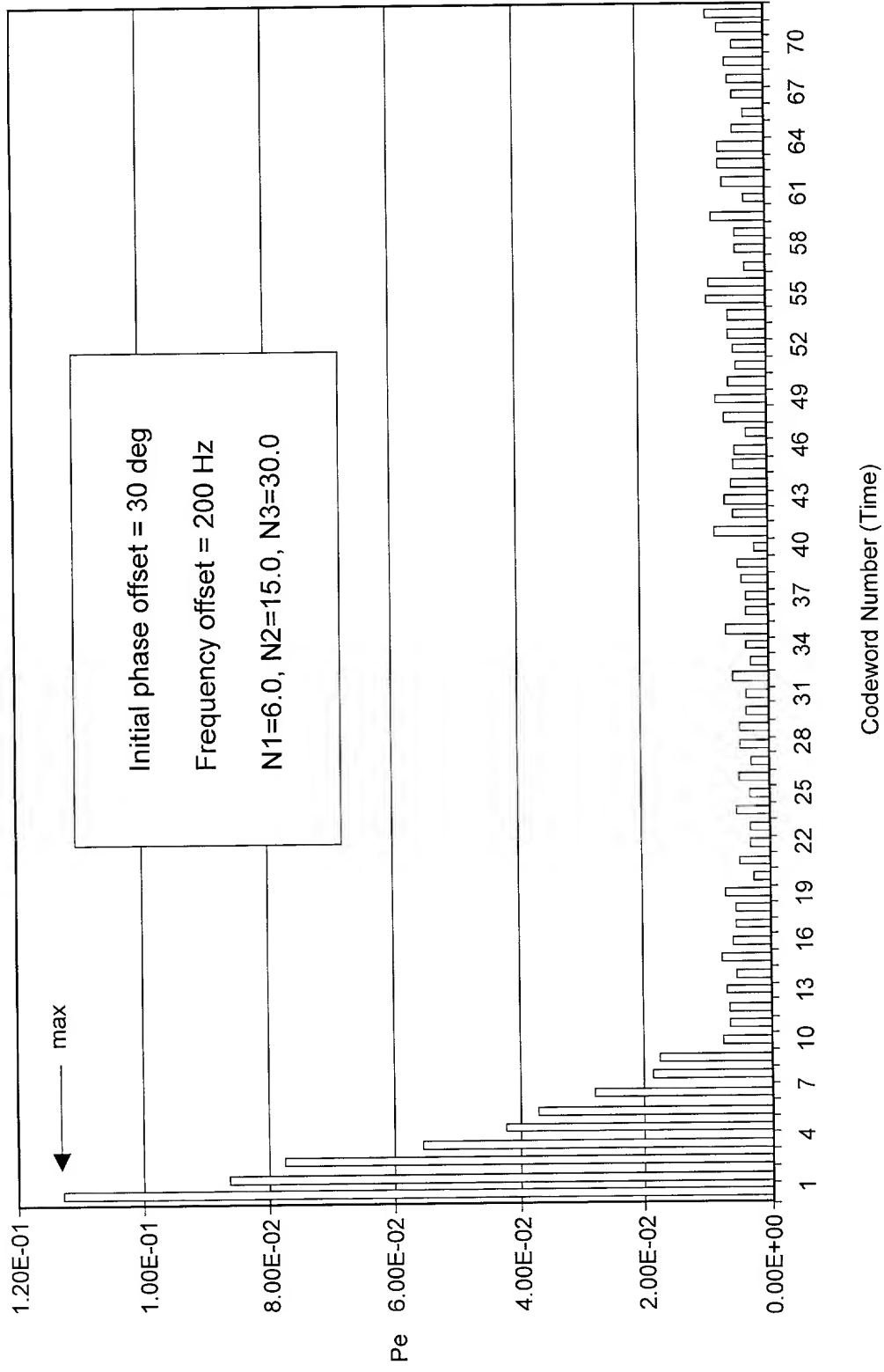


FIG. 8E

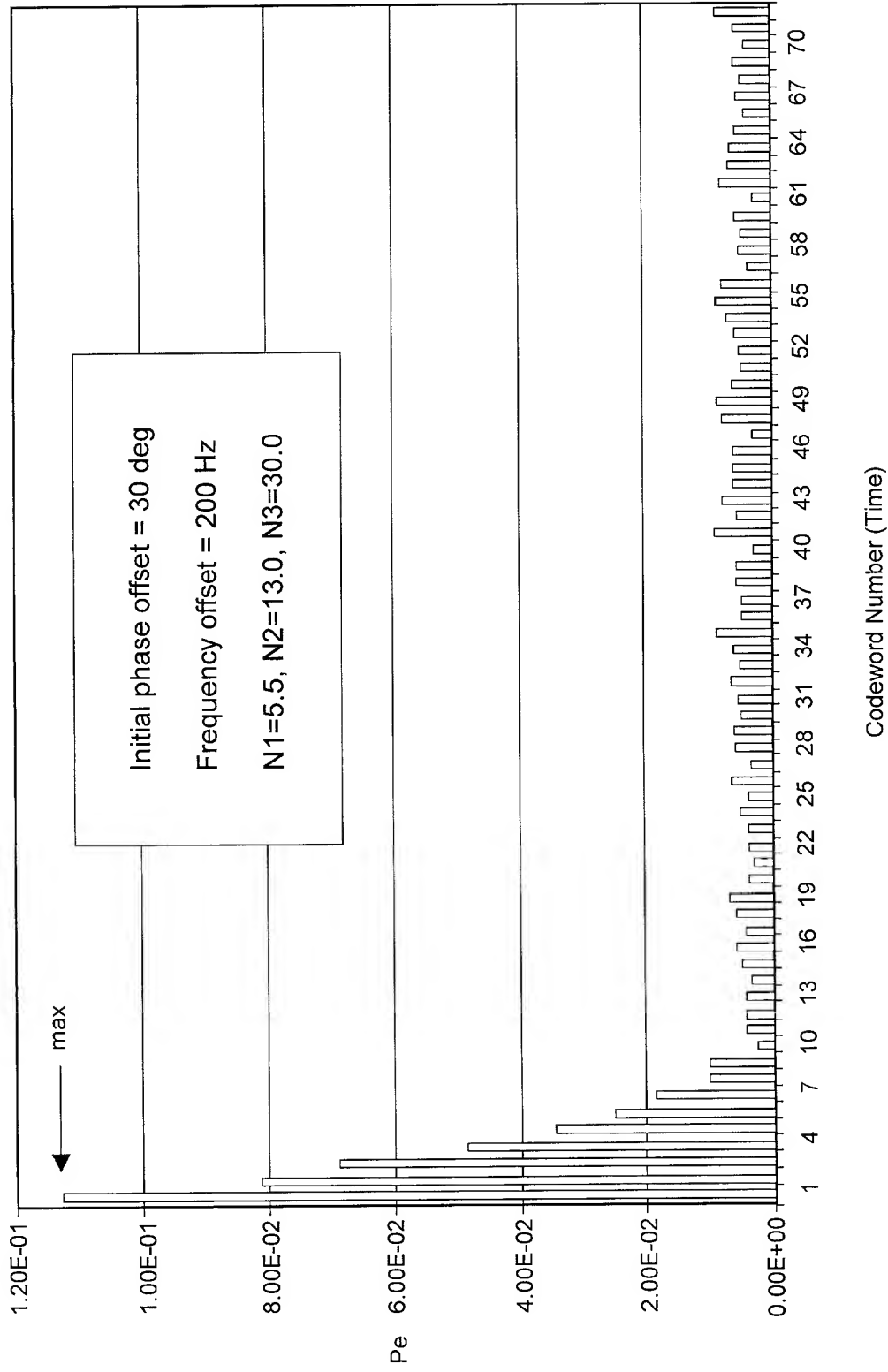


FIG. 8G

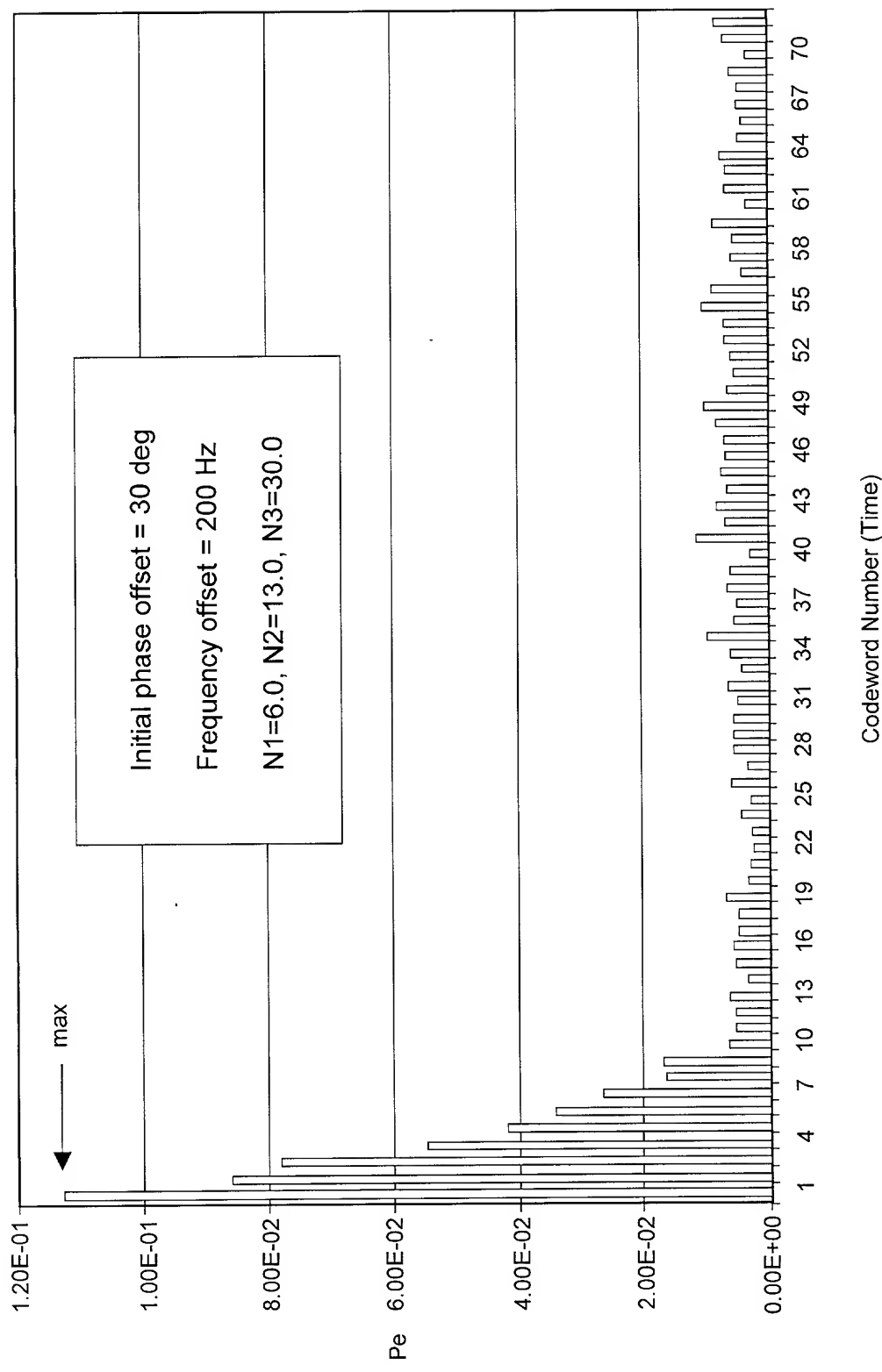


FIG. 8H

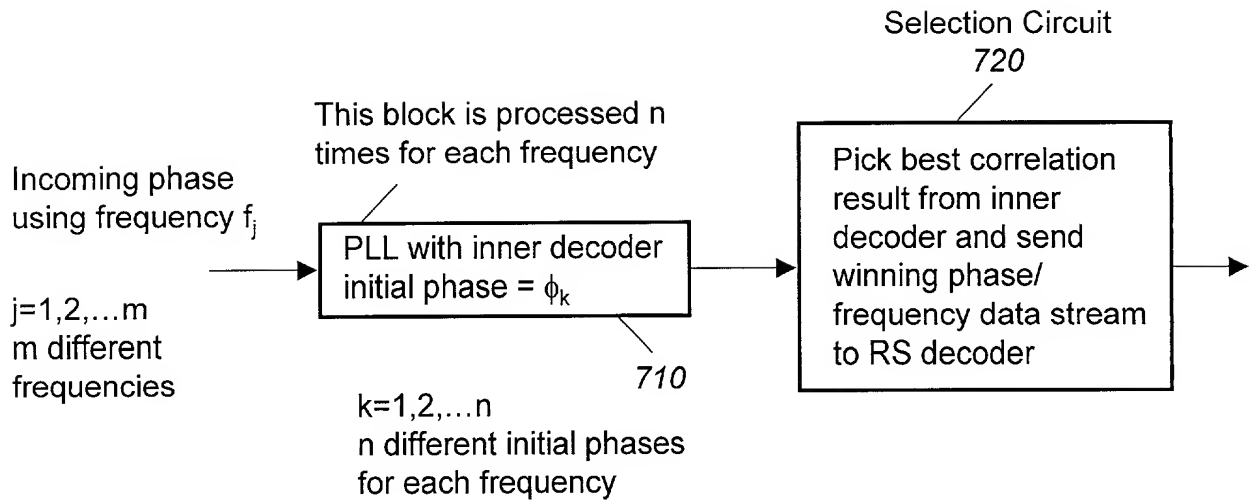


FIG. 9

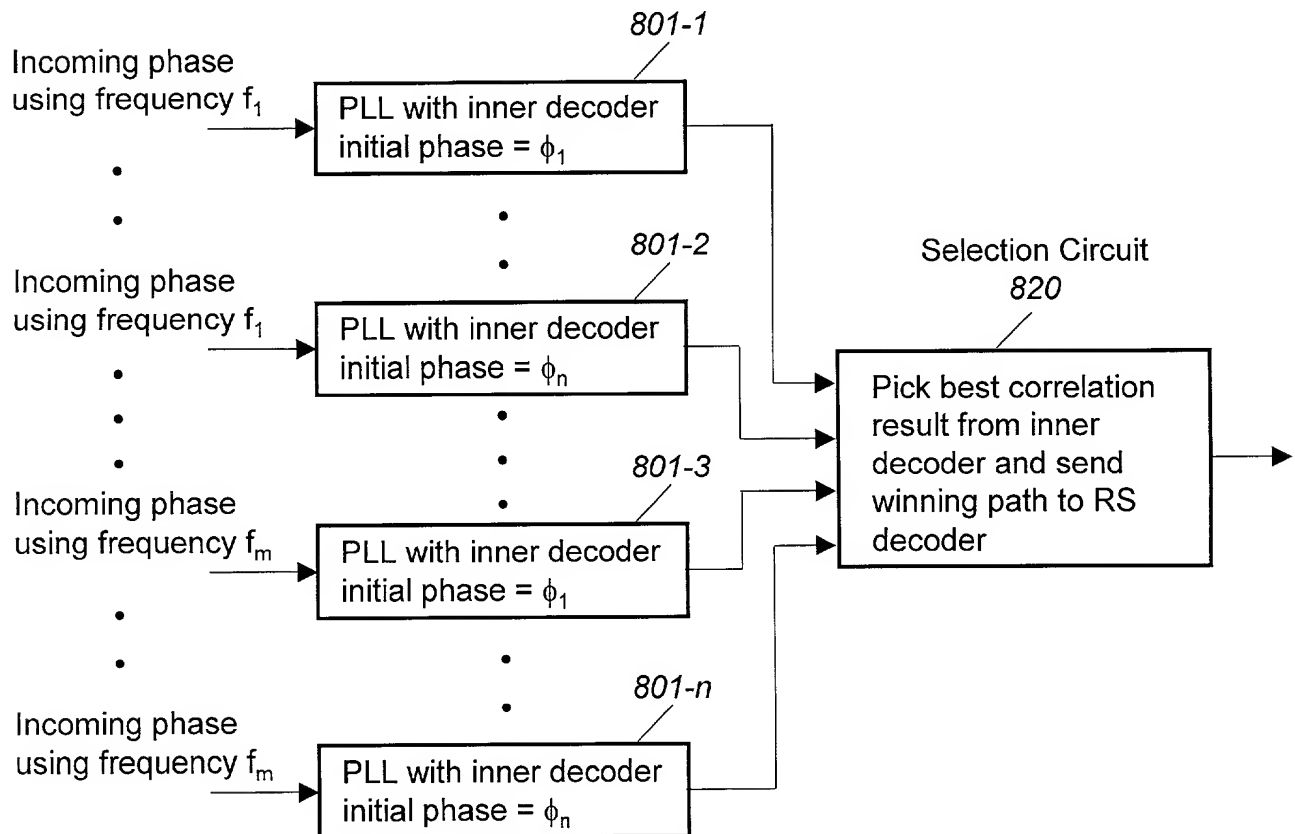


FIG. 10

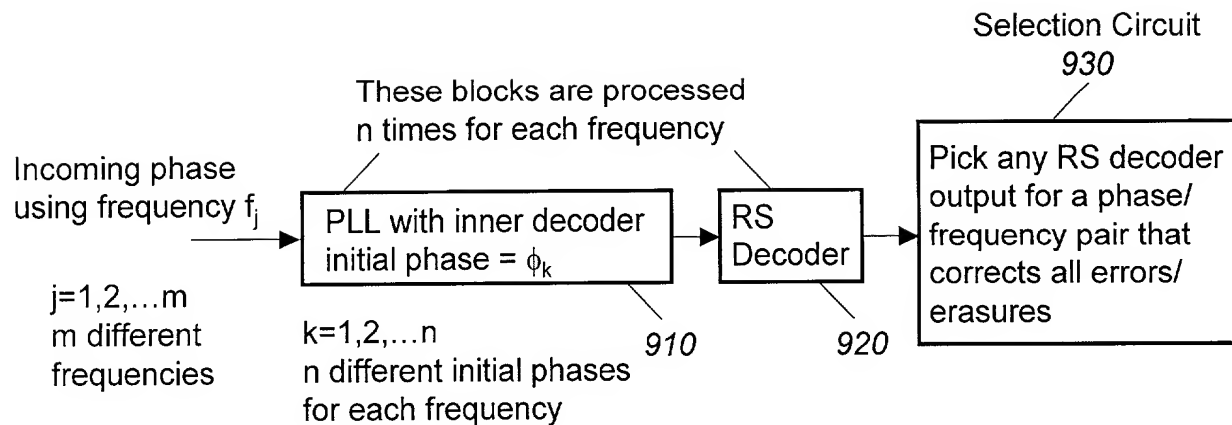


FIG. 11

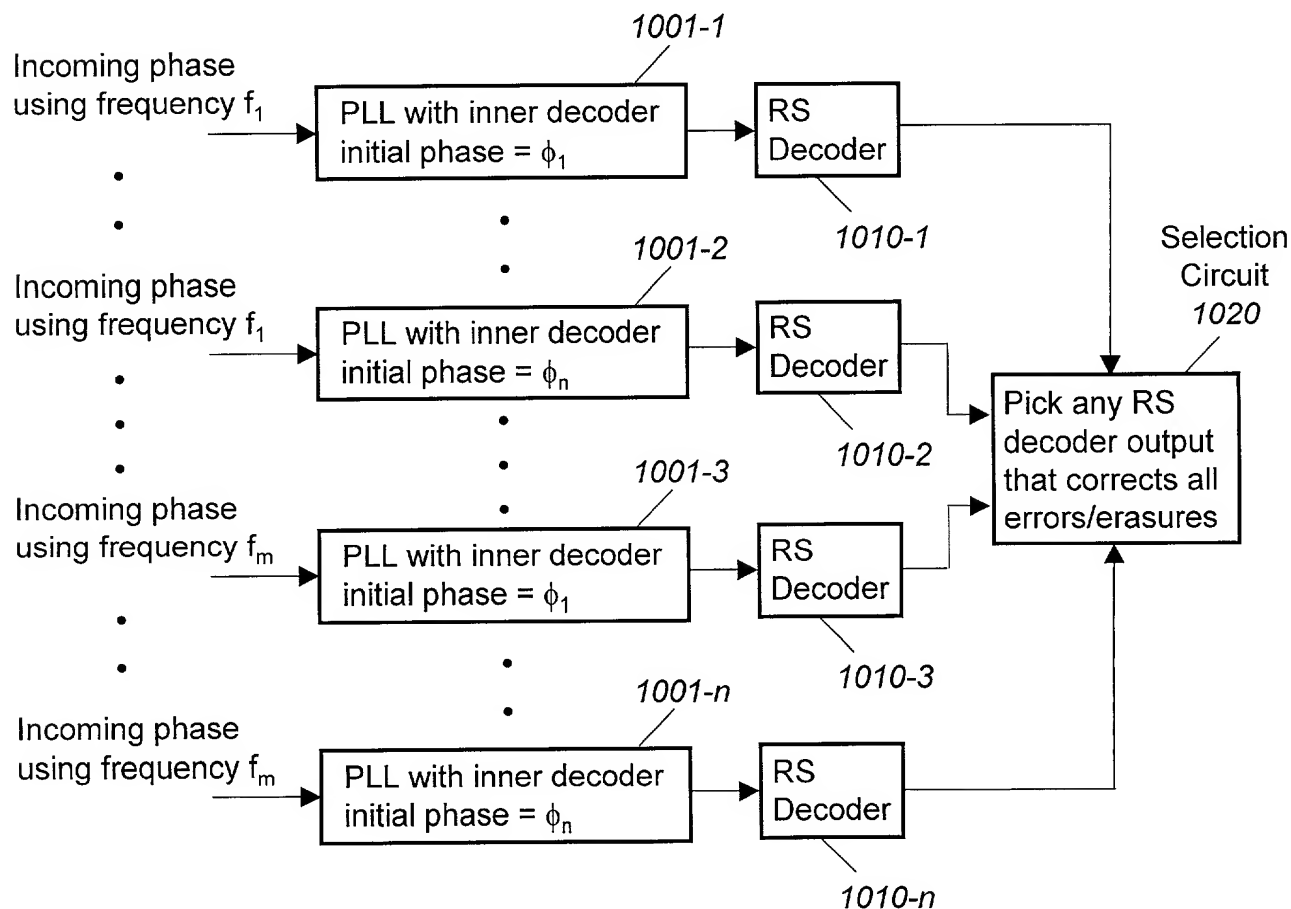


FIG. 12